

Inorganic and Organic Chemistry

FRAMEWORK COORDINATION COMPLEXES

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Sodium pyridonates have been synthesized quantitatively from hydroxypyridines and sodium hydride in THF. The unsymmetric organic ligand, 1-(2-pyridone),2-(4-methyl-2-pyridone)ethane, II, to be used in the preparation of framework coordination complexes was prepared, but was not easily separated. A new symmetric ligand, ethylene-bis-4-methyl-2-pyridone, I, was prepared and isolated. The ligands were characterized using NMR and IR spectra. Nickel, manganese, and copper salts were used in reactions with these ligands to form framework coordination complexes. Powder X-ray diffraction data were collected for these complexes.

